



UDC 687: 338.364+65.011.56

AUTOMATION OF GARMENT PRODUCTION AND TODAY'S INDUSTRY

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The main objective of the garment industry in modern times is to provide people with quality apparel, so the clothes, produced in Ukraine, could compete not only with Chinese manufacturers, but also with European ones.

How are our producers going to solve this challenge? First of all, it is a gradual automation and comprehensive mechanization of garment production, quickening processes, the growth of productivity, a significant improvement in quality of work, and the further rise of professional skills.

The most important role in the production of garments belongs to manufacturing processes, especially mass tailoring. All technological operations must be economically viable. This goal can be achieved when we have equipment at a sufficiently high level used in manufacturing, as well as modern technologies and the organization of production.

The introduction of high-quality sewing equipment, the development and use of production lines, automated sewing processes, expanding the range of goods and their quality, constantly updated modern materials are the components of improving the garment production.

Efficiency of garment production primarily depends on the equipment used at the enterprise. For the production of high quality clothing it is necessary to introduce many new production processes using semi-automatic sewing machines, electronic-controlled machines and automatic functions. All this, in turn, requires sewing professionals, especially engineers with great knowledge.

What is the use of sewing machines with automatic functions? Firstly, it means to increase productivity of the enterprise. By automating operations such as auto programmable tack, thread trimmer, needle positioning, solenoid lifter, productivity increases by 20-30% at small companies, sewing shops, and up to 40% - at large garment factories and industries.

These machines greatly facilitate the work of seamstresses and increase the quality and quantity of products.

Concluding that, automation and complex mechanization in the production of sewing clothing companies are beneficial to each and all and do not depend on the size of production, whether it is large or very small.

UDC 685.34.01:685.34.02

3D PRINTED SHOES: A STEP IN THE RIGHT DIRECTION

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В роботі аналізується роль взуття в нашому щоденному житті. Розглядаються перспективи використання інноваційних технологій для створення взуття, яке б ідеально відповідало формі стопи, але в той же час було зручне і стильне.

An accelerated pace of life is a characteristic feature of the society in the 21 century. This is due to the modern culture, technical progress and a variety of leisure activities. What forms a great demand for the range of shoes? Footwear takes an important part of our everyday life. It dictates mood and psycho-physiological state of the owner. For many people the choice of shoes is very problematic because of their individual anatomic features of the foot. Footwear mismatch leads not only to discomfort, but even to painful feeling and deformation of foot bones. That's why footwear faces the problem of copying a complex spatial shape of the foot, which doesn't injure the foot and provides comfort in use. Is it possible?

It's possible! Creation of unique footwear – a copy of your foot with the use of innovative 3D technologies is really possible. The process of creating a new generation of footwear is rather complex. It consists of several stages, each of which solves a difficult engineering task. At the first